Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A magneto-resistive angle sensor comprising a sensor device for detecting an angle (α) of an external magnetic field relative to a reference axis of the sensor device, characterized in that the sensor device comprises a continuous, flat AMR layer with one electrical contact for applying a current (I) and a plurality of electrical contacts for measuring a flow of current through the AMR layer.

2. (previously presented) A magneto-resistive angle sensor as claimed in claim 1, characterized in that the sensor device is a circular AMR layer.

3. (previously presented) A magneto-resistive angle sensor as claimed in claim 2, characterized in that the electrical contact for applying a current is arranged in the center of the circular AMR layer.

4. (currently amended) A magneto-resistive angle sensor as claimed in claim 2, characterized in that ~~a plurality of~~ eight electrical contacts are arranged equidistantly at the edge of the circular AMR layer~~, in particular eight electrical contacts~~.

5. (previously presented) A magneto-resistive angle as claimed in claim 1, characterized in that the sensor device is a semicircular AMR layer.

6. (previously presented) A magneto-resistive angle sensor as claimed in claim 5, characterized in that the electrical contact for applying a current is arranged in the center of an associated full circle.

7. (currently amended) A magneto-resistive angle sensor s claimed in claim 5, characterized in that ~~a plurality of~~ five electrical contacts (K_i) are arranged equidistantly at the semicircular edge of the semicircular AMR layer ~~(15), in particular five electrical contacts~~.

8. (currently amended) A magneto-resistive angle sensor as claimed in claim 1, characterized in that the plurality of electrical contacts are placed at ~~the same~~ ground potential~~, in particular at ground potential~~.

9. (previously presented) A magneto-resistive angle sensor as claimed in claim 1, characterized in that the AMR layer is a Permalloy layer applied to a silicon support substrate.

10. (previously presented) The use of a magneto-resistive angle sensor as claimed in claim 1 in motor vehicle technology, wherein the magneto-resistive angle sensor monitors the position of at least one of the following: pedal, throttle.

11. (new) A magneto-resistive angle sensor comprising a sensor device for detecting an angle (α) of an external magnetic field relative to a reference axis of the sensor device, characterized in that the sensor device comprises a continuous, flat, circular AMR layer with one electrical contact for applying a current (I) arranged at the center of the AMR layer and a plurality of electrical contacts for measuring a flow of current through the AMR layer.

12. (new) A magneto-resistive angle sensor comprising a sensor device for detecting an angle (α) of an external magnetic field relative to a reference axis of the sensor device, characterized in that the sensor device comprises a continuous, flat, semicircular AMR layer with one electrical contact for applying a current (I) and a plurality of electrical contacts for measuring a flow of current through the AMR layer.

13. (new) A magneto-resistive angle sensor as claimed in claim 12, wherein the electrical contact for applying a current is arranged in the center of an associated full circle.